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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/998,050	11/29/2001	Andre Weimerskirch	US010422	5481
24737	7590 04/06/2005		EXAMINER	
PHILIPS IN	TELLECTUAL PROP	DO, CHAT C		
	P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			PAPER NUMBER
,			2193	
			DATE MAILED: 04/06/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/998,050	WEIMERSKIRCH, ANDRE				
Office Action Summary	Examiner	Art Unit				
	Chat C. Do	2193				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a b. a reply within the statutory minimum of thin ariod will apply and will expire SIX (6) MOI tatute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 0	4 January 2005.					
2a)⊠ This action is FINAL . 2b)□ -	This action is FINAL . 2b) ☐ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) <u>1-21</u> is/are pending in the applicated 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-8 and 10-21</u> is/are rejected. 7) ⊠ Claim(s) <u>9</u> is/are objected to. 8) □ Claim(s) are subject to restriction are	drawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Exan	niner.					
10) The drawing(s) filed on is/are: a)	0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to	·					
Replacement drawing sheet(s) including the control of the control						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have beer reau (PCT Rule 17.2(a)).	Application No received in this National Stage				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date) Paper No	Summary (PTO-413) s)/Mail Date Informal Patent Application (PTO-152)				

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DETAILED ACTION

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1. This communication is responsive to Amendment filed 01/04/2005.

2. Claims 1-21 are pending in this application. Claims 1, 10, and 18 are independent claims. In Amendment, claims 1, 10, and 18 are amended. This Office action is made final.

Claim Rejections - 35 USC § 102

- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless -
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-8 and 10-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Epstein (U.S. 6,631,390).

Re claim 1, Epstein discloses in Figures 2A-2C as a first embodiment a method for generating a random number (abstract), comprising the steps operating a plurality of flip-flops a meta-stable state (e.g. primarily flip-flop 210 and then 240-242, col. 4 lines 8-16 and lines 48-55), each of the plurality of flip-flops connected to delay circuitry operable to violate set-up and/or hold times of the flip-flop so as to put the flip-flop in a meta-stable state (e.g. column 2 lines 54-61); generating a random bit if one of flip-flops enter meta-stable state (col. 3 lines 1-5); and preventing the generation of a random more than of plurality of flip-flops enter meta-stable state within a predefined time interval

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(col. 4 lines 32-37 wherein if flip-flop 210 is not in meta-stage, than no mistake is generated and no random number is generated from circuit 260).

Re claim 2, Epstein further discloses in Figures 2A-2C as a first embodiment the flip-flops are driven in parallel (Figures 2B 240-242).

Re claim 3, Epstein further discloses in Figures 2A-2C as a first embodiment at lease one of flip-flop is connected to least one other of flip-flops (Figure 2B wherein 210 is connected to 240-242).

Re claim 4, Epstein further discloses in Figures 2A-2C as a first embodiment the preventing step is performed by one or more exclusive or (XOR) circuits (250).

Re claim 5, Epstein further discloses in Figures 2A-2C as a first embodiment the generating step further comprises the step of choosing a random bit an output of one of flip-flops does not match an applied input (output of 250 as mistake signal).

Re claim 6, Epstein further discloses in Figures 2A-2C as a first embodiment the step of synchronizing an output of each of flip-flops (all flip-flop is driven with 230) with local clock source (230).

Re claim 7, Epstein further discloses in Figures 2A-2C as a first embodiment a synchronizing circuit that performs synchronizing step is less susceptible becoming metastable than flip-flips (col. 4 lines 50-60).

Re claim 8, Epstein further discloses in Figures 2A-2C as a first embodiment the step of a plurality of random bits to produce a random collecting number (260).

Re claim 10, it is a means claim of claim 1. Thus, claim 10 is also rejected under the same rationale as cited in the rejection of rejected claim 1.

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Re claim 11, it is a means claim of claim 2. Thus, claim 11 is also rejected under the same rationale as cited in the rejection of rejected claim 2.

Re claim 12, it is a means claim of claim 3. Thus, claim 12 is also rejected under the same rationale as cited in the rejection of rejected claim 3.

Re claim 13, it is a means claim of claim 4. Thus, claim 13 is also rejected under the same rationale as cited in the rejection of rejected claim 4.

Re claim 14, it is a means claim of claim 5. Thus, claim 14 is also rejected under the same rationale as cited in the rejection of rejected claim 5.

Re claim 15, it is a means claim of claim 6. Thus, claim 15 is also rejected under the same rationale as cited in the rejection of rejected claim 6.

Re claim 16, it is a means claim of claim 7. Thus, claim 16 is also rejected under the same rationale as cited in the rejection of rejected claim 7.

Re claim 17, it is a means claim of claim 8. Thus, claim 17 is also rejected under the same rationale as cited in the rejection of rejected claim 8.

Re claim 18, Epstein discloses in Figures 2A-2C as a first embodiment a method for generating a random number (abstract), comprising the steps operating a first flip-flop in a meta-stable state (210); and generating a random bit from an output of a second flip flop when first flip-flop is meta-stable state (242).

Re claim 19, it is has limitations cited in claim 4. Thus, claim 19 is also rejected under the same rationale as cited in the rejection of rejected claim 4.

Re claim 20, it is has limitations cited in claim 6. Thus, claim 20 is also rejected under the same rationale as cited in the rejection of rejected claim 6.

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Re claim 21, it is has limitations cited in claim 8. Thus, claim 21 is also rejected under the same rationale as cited in the rejection of rejected claim 8.

Allowable Subject Matter

5. Claim 9 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

- 6. Applicant's arguments filed 01/04/2005 have been fully considered but they are not persuasive.
 - a. The applicant argues in page 9 for claims 1, 10, and 18 that the cited reference by Epstein discloses circuits containing one flip-flop intended to be driven into a meta-stable state along with a series of flip-flops intended to avoid entering the meta-stable state which operate to synchronize the output of the meta-stable flip- flop with another signal wherein the flip-flops of present invention are intended to enter into meta-stable states.

The examiner respectfully submits that the cited reference by Epstein clearly discloses, teaches, or suggests the flip-flops of present invention are intended to enter into meta-stable states in Figures and in column 2 lines 54-61.

7. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., multiple

instantiations of such circuitry or the ancillary circuits coupled to these multiple instantiations, that are used to detect the influence externally applied noise in page 9 third paragraph) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (571) 272-3721. The examiner can normally be reached on $M \Rightarrow F$ from 7:00 AM to 5:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chaki Kakali can be reached on (571) 272-3719. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chat C. Do Examiner

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April 1, 2005

KAKALI CHAKI

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100